

Title (en)

PHOTOCATALYST SHEET, METHOD OF BONDING THEREOF AND PROCESS FOR PRODUCING THE SAME

Title (de)

PHOTOKATALYSATORFLÄCHENGEBILDE, VERBINDUNGSVERFAHREN DAFÜR UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

FEUILLE DE PHOTOCATALYSEUR, SON PROCEDE DE D'ASSEMBLAGE ET SON PROCEDE DE PRODUCTION

Publication

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Application

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Priority

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Abstract (en)

The present invention provides the photocatalyst sheet and the methods of welding and manufacturing the same, by which the substrate and resin of the photocatalyst-containing layer are not decomposed by photocatalyst particles, mutual welding of sheets is easy, and the photo-redox effect of a photocatalyst can be obtained. A photocatalyst sheet (1b) comprises a substrate (2) such as fiber and coated layers (3) on both sides of the substrate (2), and the coated layer (3) constitutes the photocatalyst-containing layer in which apatite-coated photocatalyst particles (4) are dispersed and fixed with resin. Here, the coated photocatalyst particles (4) on the surface of the photocatalyst-containing layer are so fixed as to have the parts exposed from the surface of the photocatalyst-containing layer. In case that photocatalyst sheets (1b) are mutually welded, the photocatalyst-containing layer of each photocatalyst sheet (1b) is not removed, and its surface is mutually held, and welded together by thermal welding or others.

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